USSN: 09/439,429

Attorney Docket No: 3045.00004

AMENDED VERSION

IN THE CLAIMS:

Claims 1-2 (cancelled)

- 3. (Currently Amended) A pharmaceutical or medical composition comprising as active ingredient at least one synthetic nuclease resistant antisense oligodeoxynucleotide having a nucleotide sequence selected from the group consisting of SEQ. ID No. 4 and SEQ. ID No. 6 in a physiologically acceptable carrier or diluent <u>for delivery in vitro</u>.
- 4. (Previously Presented) The pharmaceutical composition of a synthetic nuclease resistant antisense oligodeoxynucleotide comprising either SEQ. ID No. 4 or SEQ. ID No. 6 and at least one other non-control AS-ODN selected from Tables 1 and 2 wherein a percent inhibition is greater than 25%.

Claims 5-6 (cancelled)

7. (Presently Amended) A pharmaceutical composition for selectively inhibiting mammalian tumor necrosis factor alpha in a mammal in need of such treatment in vitro consisting of:

an effective amount of at least one active ingredient a synthetic nuclease resistant antisense oligodeoxynucleotide having a nucleotide sequence selected from the group consisting of SEQ. ID No. 4 and SEQ. ID No. 6 in a pharmaceutically physiologically acceptable carrier or diluent.

8. (Presently Amended) A pharmaceutical or medical composition comprising as active ingredient at least one synthetic nuclease resistant antisense oligodeoxynucleotides asset forth in claim 6 for selectively inhibiting human tumor necrosis factor-alpha *in vitro*, said antisense oligonucleotide comprising an exon targeting sequence flanking donor splice sites thereby regulating expression of TNF-α wherein the nucleotide sequence is selected from the group consisting of SEQ ID No: 4 and SEQ ID No: 6 in a physiologically acceptable carrier or diluent.

Claim 9 (cancelled)

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- 10. (Presently Amended) A method inhibiting expression of human tumor necrosis factor alpha in a mammal by administering a pharmaceutical composition as set forth in claim 67.
- 11. (Presently Amended) A DNA expression sequence comprising a transcriptional initiation region and a sequence encoding an oligonucleotide as set forth in claim 67.
 - 12. (Original) A vector comprising a DNA sequence according to claim 11.
- 13. (Previously Presented) A method of selectively regulating mammalian tumor necrosis factor alpha by targeting for treatment a tumor necrosis factor alpha splice region and then specifically modify the region to inhibit the mammalian tumor necrosis factor alpha.
- 14. (Previously Presented) The method of claim 13 further including administering an effective amount of a synthetic nuclease resistant antisense oligodeoxynucleotide which targets exon sequences flanking donor splice sites.
- 15. (Previously Presented) A method of inhibiting turnor necrosis factor alpha by targeting for treatment a tumor necrosis factor alpha splice region thereby inhibiting tumor necrosis factor alpha.
- 16. (Previously Presented) The method of claim 15 further including administering an effective amount of a synthetic nuclease resistant antisense ollgodeoxynucleotide which targets exon sequences flanking donor splice sites.